

**METHOD AND SYSTEM FOR DETERMINING NETWORK TOPOLOGY****Abstract of the Disclosure**

In accordance with one embodiment, a method and system are provided for determining the connectivity of switches in a computer network. The switches include multiple ports for connection to other switches and network elements. Connectivity of the switches is determined by determining all the possible port pairings, determining a score for each port pairing, and selecting the port pairing having the highest score.

FIG. 1 is a block diagram of a network topology determination system in accordance with one embodiment of the present invention. The system includes a processor 102, a memory 104, and a network interface 106. The processor 102 is configured to execute a network topology determination program 108. The memory 104 is configured to store data 110. The network interface 106 is configured to communicate with a network 112. The network 112 includes a plurality of switches 114 and a plurality of network elements 116. The switches 114 are connected to each other and to the network elements 116. The network topology determination program 108 is configured to determine the connectivity of the switches 114 in the network 112. The data 110 includes a list of possible port pairings 118, a list of scores 120, and a selected port pairing 122. The network topology determination program 108 is configured to determine all the possible port pairings 118, determine a score 120 for each port pairing, and select the port pairing 122 having the highest score.